

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

TANG, Y. Tom

YUE, Henry

LAL, Preeti

BANDMAN, Olga

AU-YOUNG, Janice

REDDY, Roopa

CORLEY, Neil C.

GUEGLER, Karl J.

GORGONE, Gina A.

BAUGHN, Mariah R.

AZIMZAI, Yalda

<120> G-PROTEIN COUPLED RECEPTOR PROTEINS

<130> PF-0612 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/167,219; unassigned; 60/133,585

<151> 1998-10-06; 1998-10-06; 1999-05-11

<160> 18

<170> PERL Program

<210> 1

<211> 693

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1595762CD1

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Met	Thr	Pro	Gln	Ser	Leu	Leu	Gln	Thr	Thr	Leu	Phe	Leu	Leu	Ser
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Leu	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu
				20					25					30
Asp	Phe	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser
				35					40					45
Leu	His	Tyr	Lys	Pro	Thr	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn
				50					55					60
Ser	Glu	Glu	Ala	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	Ala	His
				65					70					75
Pro	Ala	Ser	Arg	Ser	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe
				80					85					90
Cys	Leu	Tyr	Trp	Asn	Arg	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr
				95					100					105
Gly	Lys	Arg	Asp	Phe	Leu	Leu	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu

	110		115		120
Cys Phe Gln His	Gln Glu Glu Ser Leu	Ala Gln Gly Pro Pro	Leu		
	125		130		135
Leu Ala Thr Ser	Val Thr Ser Trp Trp	Ser Pro Gln Asn Ile	Ser		
	140		145		150
Leu Pro Ser Ala	Ala Ser Phe Thr Phe	Ser Phe His Ser Pro	Pro		
	155		160		165
His Thr Ala Ala	His Asn Ala Ser Val	Asp Met Cys Glu Leu	Lys		
	170		175		180
Arg Asp Leu Gln	Leu Leu Ser Gln Phe	Leu Lys His Pro Gln	Lys		
	185		190		195
Ala Ser Arg Arg	Pro Ser Ala Ala Pro	Ala Ser Gln Gln Leu	Gln		
	200		205		210
Ser Leu Glu Ser	Lys Leu Thr Ser Val	Arg Phe Met Gly Asp	Met		
	215		220		225
Val Ser Phe Glu	Glu Asp Arg Ile Asn	Ala Thr Val Trp Lys	Leu		
	230		235		240
Gln Pro Thr Ala	Gly Leu Gln Asp Leu	His Ile His Ser Arg	Gln		
	245		250		255
Glu Glu Glu Gln	Ser Glu Ile Met Glu	Tyr Ser Val Leu Leu	Pro		
	260		265		270
Arg Thr Leu Phe	Gln Arg Thr Lys Gly	Arg Ser Gly Glu Ala	Glu		
	275		280		285
Lys Arg Leu Leu	Leu Val Asp Phe Ser	Ser Gln Ala Leu Phe	Gln		
	290		295		300
Asp Lys Asn Ser	Ser Gln Val Leu Gly	Glu Lys Val Leu Gly	Ile		
	305		310		315
Val Val Gln Asn	Thr Lys Val Ala Asn	Leu Thr Glu Pro Val	Val		
	320		325		330
Leu Thr Phe Gln	His Gln Leu Gln Pro	Lys Asn Val Thr Leu	Gln		
	335		340		345
Cys Val Phe Trp	Val Glu Asp Pro Thr	Leu Ser Ser Pro Gly	His		
	350		355		360
Trp Ser Ser Ala	Gly Cys Glu Thr Val	Arg Arg Glu Thr Gln	Thr		
	365		370		375
Ser Cys Phe Cys	Asn His Leu Thr Tyr	Phe Ala Val Leu Met	Val		
	380		385		390
Ser Ser Val Glu	Val Asp Ala Val His	Lys His Tyr Leu Ser	Leu		
	395		400		405
Leu Ser Tyr Val	Gly Cys Val Val Ser	Ala Leu Ala Cys Leu	Val		
	410		415		420
Thr Ile Ala Ala	Tyr Leu Cys Ser Arg	Val Pro Leu Pro Cys	Arg		
	425		430		435
Arg Lys Pro Arg	Asp Tyr Thr Ile Lys	Val His Met Asn Leu	Leu		
	440		445		450
Leu Ala Val Phe	Leu Leu Asp Thr Ser	Phe Leu Leu Ser Glu	Pro		
	455		460		465
Val Ala Leu Thr	Gly Ser Glu Ala Gly	Cys Arg Ala Ser Ala	Ile		
	470		475		480
Phe Leu His Phe	Ser Leu Leu Thr Cys	Leu Ser Trp Met Gly	Leu		
	485		490		495
Glu Gly Tyr Asn	Leu Tyr Arg Leu Val	Val Glu Val Phe Gly	Thr		
	500		505		510
Tyr Val Pro Gly	Tyr Leu Leu Lys Leu	Ser Ala Met Gly Trp	Gly		
	515		520		525

Phe	Pro	Ile	Phe	Leu	Val	Thr	Leu	Val	Ala	Leu	Val	Asp	Val	Asp	
				530					535					540	
Asn	Tyr	Gly	Pro	Ile	Ile	Leu	Ala	Val	His	Arg	Thr	Pro	Glu	Gly	
				545					550					555	
Val	Ile	Tyr	Pro	Ser	Met	Cys	Trp	Ile	Arg	Asp	Ser	Leu	Val	Ser	
				560					565					570	
Tyr	Ile	Thr	Asn	Leu	Gly	Leu	Phe	Ser	Leu	Val	Phe	Leu	Phe	Asn	
				575					580					585	
Met	Ala	Met	Leu	Ala	Thr	Met	Val	Val	Gln	Ile	Leu	Arg	Leu	Arg	
				590					595					600	
Pro	His	Thr	Gln	Lys	Trp	Ser	His	Val	Leu	Thr	Leu	Leu	Gly	Leu	
				605					610					615	
Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala	Leu	Ile	Phe	Phe	Ser	Phe	
				620					625					630	
Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu	Tyr	Leu	Phe	Ser	Ile	
				635					640					645	
Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile	Trp	Tyr	Trp	Ser	
				650					655					660	
Met	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro	Leu	Lys	Ser	Asn	
				665					670					675	
Ser	Asp	Ser	Ala	Arg	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr	Ser	Ser	
				680					685					690	
Ser	Arg	Ile													

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<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2763296CD1

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Met	Thr	Pro	Gln	Ser	Leu	Leu	Gln	Thr	Thr	Leu	Phe	Leu	Leu	Ser	
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Leu	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu	
				20					25					30	
Asp	Phe	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser	
				35					40					45	
Leu	His	Tyr	Tyr	Trp	Ser	Met	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	
				50					55					60	
Ser	Pro	Leu	Lys	Ser	Asn	Ser	Asp	Ser	Ala	Arg	Leu	Pro	Ile	Ser	
				65					70					75	
Ser	Gly	Ser	Thr	Ser	Ser	Ser	Arg	Ile							
				80											

<210> 3

<211> 136

<212> PRT

<213> Homo sapiens

<220>
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 <223> Incyte ID No: 3367641CD1

<400> 3

Met	Gly	Val	Ser	Ala	Leu	Thr	Glu	Leu	Thr	Ser	Leu	Gly	Gly	Asp
1				5					10					15
Ser	Leu	Ser	Cys	Cys	Val	Pro	Asp	Ile	Asn	Glu	Cys	Ala	Thr	Pro
				20					25					30
Ser	Lys	Val	Ser	Cys	Gly	Lys	Phe	Ser	Asp	Cys	Trp	Asn	Thr	Glu
				35					40					45
Gly	Ser	Tyr	Asp	Cys	Val	Cys	Ser	Pro	Gly	Tyr	Glu	Pro	Val	Ser
				50					55					60
Gly	Ala	Lys	Thr	Phe	Lys	Asn	Glu	Ser	Glu	Asn	Thr	Cys	Gln	Gly
				65					70					75
Lys	Asn	His	Pro	Thr	Ser	Ser	Asp	Phe	Pro	Ser	Met	Arg	Phe	Gly
				80					85					90
Val	Thr	Arg	Ala	Ile	Leu	Ala	Ala	Ser	Arg	Glu	Gln	Gly	Leu	Gly
				95					100					105
Cys	Arg	Val	Ser	Ala	Trp	Arg	Leu	Arg	Trp	Asp	Arg	Cys	Thr	Cys
				110					115					120
Thr	Tyr	Pro	Thr	Thr	Pro	Glu	Arg	Gln	Ser	Asp	Val	Arg	Ile	Lys
				125					130					135

Gly

<210> 4
 <211> 307
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 866390CD1

<400> 4

Met	Glu	Ser	Glu	Asn	Arg	Thr	Val	Ile	Arg	Glu	Phe	Ile	Leu	Leu
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Gly	Leu	Thr	Gln	Ser	Gln	Asp	Ile	Gln	Leu	Leu	Val	Phe	Val	Leu
				20					25					30
Val	Leu	Ile	Phe	Tyr	Phe	Ile	Ile	Leu	Pro	Gly	Asn	Phe	Leu	Ile
				35					40					45
Ile	Phe	Thr	Ile	Lys	Ser	Asp	Pro	Gly	Leu	Thr	Ala	Pro	Leu	Tyr
				50					55					60
Phe	Phe	Leu	Gly	Asn	Leu	Ala	Phe	Leu	Asp	Ala	Ser	Tyr	Ser	Phe
				65					70					75
Ile	Val	Ala	Pro	Arg	Met	Leu	Val	Asp	Phe	Leu	Ser	Ala	Lys	Lys
				80					85					90
Ile	Ile	Ser	Tyr	Arg	Gly	Cys	Ile	Thr	Gln	Leu	Phe	Phe	Leu	His
				95					100					105
Phe	Leu	Gly	Gly	Gly	Glu	Gly	Leu	Leu	Leu	Val	Val	Met	Ala	Phe
				110					115					120
Asp	Arg	Tyr	Ile	Ala	Ile	Cys	Arg	Pro	Leu	His	Tyr	Pro	Thr	Val
				125					130					135

Met Asn Pro Arg Thr Cys Tyr Ala Met Met Leu Ala Leu Trp Leu

	140		145		150
Gly Gly Phe Val	His Ser Ile Ile Gln Val	Val Leu Ile Leu Arg			
	155		160		165
Leu Pro Phe Cys	Gly Pro Asn Gln Leu Asp	Asn Phe Phe Cys Asp			
	170		175		180
Val Pro Gln Val	Ile Lys Leu Ala Cys Thr	Asp Thr Phe Val Val			
	185		190		195
Glu Leu Leu Met	Val Phe Asn Ser Gly Leu	Met Thr Leu Leu Cys			
	200		205		210
Phe Leu Gly Leu	Leu Ala Ser Tyr Ala Val	Ile Leu Cys Arg Ile			
	215		220		225
Arg Gly Ser Ser	Ser Glu Ala Lys Asn Lys	Ala Met Ser Thr Cys			
	230		235		240
Ile Thr His Ile	Ile Val Ile Phe Phe Met	Phe Gly Pro Gly Ile			
	245		250		255
Phe Ile Tyr Thr	Arg Pro Phe Arg Ala Phe	Pro Ala Asp Lys Val			
	260		265		270
Val Ser Leu Phe	His Thr Val Ile Phe Pro	Leu Leu Asn Pro Val			
	275		280		285
Ile Tyr Thr Leu	Arg Asn Gln Glu Val Lys	Ala Ser Met Lys Lys			
	290		295		300
Val Phe Asn Lys	His Ile Ala				
	305				

<210> 5

<211> 318

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 998550CD1

<400> 5

Met Met Val Asp	Pro Asn Gly Asn Glu Ser	Ser Ala Thr Tyr Phe			
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Ile Leu Ile Gly	Leu Pro Gly Leu Glu Glu	Ala Gln Phe Trp Leu			
	20	25			30
Ala Phe Pro Leu	Cys Ser Leu Tyr Leu Ile	Ala Val Leu Gly Asn			
	35	40			45
Leu Thr Ile Ile	Tyr Ile Val Arg Thr Glu	His Ser Leu His Glu			
	50	55			60
Pro Met Tyr Ile	Phe Leu Cys Met Leu Ser	Gly Ile Asp Ile Leu			
	65	70			75
Ile Ser Thr Ser	Ser Met Pro Lys Met Leu	Ala Ile Phe Trp Phe			
	80	85			90
Asn Ser Thr Thr	Ile Gln Phe Asp Ala Cys	Leu Leu Gln Met Phe			
	95	100			105
Ala Ile His Ser	Leu Ser Gly Met Glu Ser	Thr Val Leu Leu Ala			
	110	115			120
Met Ala Phe Asp	Arg Tyr Val Ala Ile Cys	His Pro Leu Arg His			
	125	130			135
Ala Thr Val Leu	Thr Leu Pro Arg Val Thr	Lys Ile Gly Val Ala			
	140	145			150

Ala	Val	Val	Arg	Gly	Ala	Ala	Leu	Met	Ala	Pro	Leu	Pro	Val	Phe
				155					160					165
Ile	Lys	Gln	Leu	Pro	Phe	Cys	Arg	Ser	Asn	Ile	Leu	Ser	His	Ser
				170					175					180
Tyr	Cys	Leu	His	Gln	Asp	Val	Met	Lys	Leu	Ala	Cys	Asp	Asp	Ile
				185					190					195
Arg	Val	Asn	Val	Val	Tyr	Gly	Leu	Ile	Val	Ile	Ile	Ser	Ala	Ile
				200					205					210
Gly	Leu	Asp	Ser	Leu	Leu	Ile	Ser	Phe	Ser	Tyr	Leu	Leu	Ile	Leu
				215					220					225
Lys	Thr	Val	Leu	Gly	Leu	Thr	Arg	Glu	Ala	Gln	Ala	Lys	Ala	Phe
				230					235					240
Gly	Thr	Cys	Val	Ser	His	Val	Cys	Ala	Val	Phe	Ile	Phe	Tyr	Val
				245					250					255
Pro	Phe	Ile	Gly	Leu	Ser	Met	Val	His	Arg	Phe	Ser	Lys	Arg	Arg
				260					265					270
Asp	Ser	Pro	Leu	Pro	Val	Ile	Leu	Ala	Asn	Ile	Tyr	Leu	Leu	Val
				275					280					285
Pro	Pro	Val	Leu	Asn	Pro	Ile	Val	Tyr	Gly	Val	Lys	Thr	Lys	Glu
				290					295					300
Ile	Arg	Gln	Arg	Ile	Leu	Arg	Leu	Phe	His	Val	Ala	Thr	His	Ala
				305					310					315

Ser Glu Pro

<210> 6

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1547873CD1

<400> 6

Met	Met	Pro	Thr	Gln	Thr	Leu	Pro	Glu	Thr	His	Ala	Pro	Gly	Glu
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Thr	Gln	Ile	Ser	Leu	Phe	Ser	Ser	Gly	Asp	Gln	Glu	Ala	Gln	Asn
				20					25					30
Pro	Asn	Leu	Val	Ser	Gln	Leu	Cys	Gly	Val	Phe	Leu	Gln	Asn	Glu
				35					40					45
Thr	Asn	Glu	Thr	Ile	His	Met	Gln	Met	Ser	Met	Ala	Val	Gly	Gln
				50					55					60
Gln	Ala	Leu	Pro	Leu	Asn	Ile	Ile	Ala	Pro	Lys	Ala	Val	Leu	Val
				65					70					75
Ser	Leu	Cys	Gly	Val	Leu	Leu	Asn	Gly	Thr	Val	Phe	Trp	Leu	Leu
				80					85					90
Cys	Cys	Gly	Ala	Thr	Asn	Pro	Tyr	Met	Val	Tyr	Ile	Leu	His	Leu
				95					100					105
Val	Ala	Ala	Asp	Val	Ile	Tyr	Leu	Cys	Cys	Ser	Ala	Val	Gly	Phe
				110					115					120
Leu	Gln	Ile	Tyr	Ser	Val	Ala	Glu	Asp	Met	Val	Ser	Phe	Val	His
				125					130					135

His Gly Val

<210> 7
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 <213> Homo sapiens

<220>
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 Gln Gly Ile Val Gly Ser Leu Pro Glu Val Leu Gln Ala Pro Val
 20 25 30
 Gly Ser Ser Ile Leu Val Gln Cys His Tyr Arg Leu Gln Asp Val
 35 40 45
 Lys Ala Gln Lys Val Trp Cys Arg Phe Leu Pro Glu Gly Cys Gln
 50 55 60
 Pro Leu Val Ser Ser Ala Val Asp Arg Arg Ala Pro Ala Gly Arg
 65 70 75
 Arg Thr Phe Leu Thr Asp Leu Gly Gly Gly Leu Leu Gln Val Glu
 80 85 90
 Met Val Thr Leu Gln Glu Glu Asp Ala Gly Glu Tyr Gly Cys Met
 95 100 105
 Val Asp Gly Ala Arg Gly Pro Gln Ile Leu His Arg Val Ser Leu
 110 115 120
 Asn Ile Leu Pro Pro Glu Glu Glu Glu Glu Thr His Lys Ile Gly
 125 130 135
 Ser Leu Ala Glu Asn Ala Phe Ser Asp Pro Ala Gly Ser Ala Asn
 140 145 150
 Pro Leu Glu Pro Ser Gln Asp Glu Lys Ser Ile Pro Leu Ile Trp
 155 160 165
 Gly Ala Val Leu Leu Val Gly Leu Leu Val Ala Ala Val Val Leu
 170 175 180
 Phe Ala Val Met Ala Lys Arg Lys Gln Glu Ser Leu Leu Ser Gly
 185 190 195
 Pro Pro Arg Gln

<210> 8
 <211> 445
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 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 5554170CD1

<400> 8
 Met Ala Ala Pro Thr Pro Ala Arg Pro Val Leu Thr His Leu Leu
 1 5 10 15
 Val Ala Leu Phe Gly Met Gly Ser Trp Ala Ala Val Asn Gly Ile
 20 25 30

Trp	Val	Glu	Leu	Pro	Val	Val	Val	Lys	Glu	Leu	Pro	Glu	Gly	Trp	35	40	45
Ser	Leu	Pro	Ser	Tyr	Val	Ser	Val	Leu	Val	Ala	Leu	Gly	Asn	Leu	50	55	60
Gly	Leu	Leu	Val	Val	Thr	Leu	Trp	Arg	Arg	Leu	Ala	Pro	Gly	Lys	65	70	75
Asp	Glu	Gln	Val	Pro	Ile	Arg	Val	Val	Gln	Val	Leu	Gly	Met	Val	80	85	90
Gly	Thr	Ala	Leu	Leu	Ala	Ser	Leu	Trp	His	His	Val	Ala	Pro	Val	95	100	105
Ala	Gly	Gln	Leu	His	Ser	Val	Ala	Phe	Leu	Ala	Leu	Ala	Phe	Val	110	115	120
Leu	Ala	Leu	Ala	Cys	Cys	Ala	Ser	Asn	Val	Thr	Phe	Leu	Pro	Phe	125	130	135
Leu	Ser	His	Leu	Pro	Pro	Arg	Phe	Leu	Arg	Ser	Phe	Phe	Leu	Gly	140	145	150
Gln	Gly	Leu	Ser	Ala	Leu	Leu	Pro	Cys	Val	Leu	Ala	Leu	Val	Gln	155	160	165
Gly	Val	Gly	Arg	Leu	Glu	Cys	Pro	Pro	Ala	Pro	Ile	Asn	Gly	Thr	170	175	180
Pro	Gly	Pro	Pro	Leu	Asp	Phe	Leu	Glu	Arg	Phe	Pro	Ala	Ser	Thr	185	190	195
Phe	Phe	Trp	Ala	Leu	Thr	Ala	Leu	Leu	Val	Ala	Ser	Ala	Ala	Ala	200	205	210
Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Pro	Pro	Ser	Val	Pro	215	220	225
Thr	Gly	Glu	Leu	Gly	Ser	Gly	Leu	Gln	Val	Gly	Ala	Pro	Gly	Ala	230	235	240
Glu	Glu	Glu	Val	Glu	Glu	Ser	Ser	Pro	Leu	Gln	Glu	Pro	Pro	Ser	245	250	255
Gln	Ala	Ala	Gly	Thr	Thr	Pro	Gly	Pro	Asp	Pro	Lys	Ala	Tyr	Gln	260	265	270
Leu	Leu	Ser	Ala	Arg	Ser	Ala	Cys	Leu	Leu	Gly	Leu	Leu	Ala	Ala	275	280	285
Thr	Asn	Ala	Leu	Thr	Asn	Gly	Val	Leu	Pro	Ala	Val	Gln	Ser	Phe	290	295	300
Ser	Cys	Leu	Pro	Tyr	Gly	Arg	Leu	Ala	Tyr	His	Leu	Ala	Val	Val	305	310	315
Leu	Gly	Ser	Ala	Ala	Asn	Pro	Leu	Ala	Cys	Phe	Leu	Ala	Met	Gly	320	325	330
Val	Leu	Cys	Arg	Ser	Leu	Ala	Gly	Leu	Gly	Gly	Leu	Ser	Leu	Leu	335	340	345
Gly	Val	Phe	Cys	Gly	Gly	Tyr	Leu	Met	Ala	Leu	Ala	Val	Leu	Ser	350	355	360
Pro	Cys	Pro	Pro	Leu	Val	Gly	Thr	Ser	Ala	Gly	Val	Val	Leu	Val	365	370	375
Val	Leu	Ser	Trp	Val	Leu	Cys	Leu	Gly	Val	Phe	Ser	Tyr	Val	Lys	380	385	390
Val	Ala	Ala	Ser	Ser	Leu	Leu	His	Gly	Gly	Gly	Arg	Pro	Ala	Leu	395	400	405
Leu	Ala	Ala	Gly	Val	Ala	Ile	Gln	Val	Gly	Ser	Leu	Leu	Gly	Ala	410	415	420
Val	Ala	Met	Phe	Pro	Pro	Thr	Ser	Ile	Tyr	His	Val	Phe	His	Ser	425	430	435

Arg Lys Asp Cys Ala Asp Pro Cys Asp Ser
440 445

<210> 9
<211> 3632
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1595762CB1

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cgacactgtt cctgctgagt ctgctcttcc tgggtccaagg tgcccacggc agggggccaca 180
gggaagactt tcgcttctgc agccagcggg accagacaca caggagcagc ctccactaca 240
aaccacacac agacctgcgc atctccatcg agaactccga agaggccctc acagtccatg 300
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ctcacaatgc ctcggtggac atgtgcgagc tcaaaaggga cctccagctg ctcagccagt 660
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tgcagagcct ggagtcgaaa ctgacctctg tgagattcat gggggacatg gtgtccttcg 780
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tgcacatcca ctcccgccag gaggaggagc agagcgagat catggagtac tcggtgctgc 900
tgcctcgaac actcttccag aggacgaaaag gccggagcgg ggaggctgag aagagactcc 960
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tggtgctcac cttccagcac cagctacagc cgaagaatgt gactctgcaa tgtgtgttct 1140
gggttgaaga cccacattg agcagcccg ggcatgtgag cagtgtctggg tgtgagaccg 1200
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<211> 714

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2763296CB1

<400> 10

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<212> DNA

<213> Homo sapiens

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<222> 1029

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<220>

<221> misc_feature

<223> Incyte ID No: 3367641CB1

<400> 11

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<213> Homo sapiens

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<400> 13

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<212> DNA

<213> Homo sapiens

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<400> 14

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<211> 1185

<212> DNA

<213> Homo sapiens

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<211> 2171

<212> DNA

<213> Homo sapiens

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<400> 17

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35 40 45
Ser Leu Ser Pro Pro Pro Ala Lys Leu Ser Val Val Ser Phe Ala
50 55 60
Pro Ser Ser Asn Glu Val Glu Thr Thr Ser Leu Asn Asp Val Thr
65 70 75
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Val	Gln	Thr	Asp	Ile	Val	Asn	Thr	Ser	Ser	Ile	Ser	Asp	Leu	Glu
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Asn	Gln	Val	Leu	Gln	Met	Glu	Lys	Ala	Leu	Ser	Leu	Gly	Ser	Leu
				380					385					390
Glu	Pro	Asn	Leu	Ala	Gly	Glu	Met	Ile	Asn	Gln	Val	Ser	Arg	Leu
				395					400					405
Leu	His	Ser	Pro	Pro	Asp	Met	Leu	Ala	Pro	Leu	Ala	Gln	Arg	Leu
				410					415					420
Leu	Lys	Val	Val	Asp	Asp	Ile	Gly	Leu	Gln	Leu	Asn	Phe	Ser	Asn
				425					430					435
Thr	Thr	Ile	Ser	Leu	Thr	Ser	Pro	Ser	Leu	Ala	Leu	Ala	Val	Ile
				440					445					450
Arg	Val	Asn	Ala	Ser	Ser	Phe	Asn	Thr	Thr	Thr	Phe	Val	Ala	Gln
				455					460					465
Asp	Pro	Ala	Asn	Leu	Gln	Val	Ser	Leu	Glu	Thr	Gln	Ala	Pro	Glu
				470					475					480
Asn	Ser	Ile	Gly	Thr	Ile	Thr	Leu	Pro	Ser	Ser	Leu	Met	Asn	Asn
				485					490					495
Leu	Pro	Ala	His	Asp	Met	Glu	Leu	Ala	Ser	Arg	Val	Gln	Phe	Asn
				500					505					510
Phe	Phe	Glu	Thr	Pro	Ala	Leu	Phe	Gln	Asp	Pro	Ser	Leu	Glu	Asn
				515					520					525
Leu	Ser	Leu	Ile	Ser	Tyr	Val	Ile	Ser	Ser	Ser	Val	Ala	Asn	Leu

Thr Val Arg Asn	530	Thr Val Thr Leu Lys	540
Ile Asn Pro Ser	545	Val Arg Cys Val Phe	555
Asp Leu Gly Arg	560	Gly Trp Ser Asp Asn	570
Cys Ser Val Lys	575	Glu Thr Ile Cys Thr	585
Ser His Leu Thr	590	Leu Asp Leu Ser Arg	600
Ser Val Leu Pro	605	Leu Thr Phe Ile Thr	615
Ile Gly Cys Gly	620	Leu Ser Val Thr Leu	630
Thr Tyr Ile Ala	635	Arg Asp Tyr Pro Ser	645
Ile Leu Ile Gln	650	Leu Leu Leu Asn Leu	660
Phe Leu Leu Asp	665	Tyr Lys Met Gln Gly	675
Cys Ile Ser Val	680	Tyr Phe Leu Leu Val	690
Phe Thr Trp Met	695	His Met Tyr Leu Ala	705
Val Lys Val Phe	710	Lys Tyr Ile Leu Lys	720
Cys Ile Val Gly	725	Val Val Val Thr Ile	735
Leu Thr Ile Ser	740	Leu Gly Ser Tyr Gly	750
Phe Pro Asn Gly	755	Cys Trp Ile Asn Asn	765
Ala Val Phe Tyr	770	Tyr Phe Cys Val Ile	780
Leu Leu Asn Val	785	Val Leu Val Gln Leu	795
Arg Ile Lys Lys	800	Ala Gln Arg Lys Thr	810
Ile Gln Asp Leu	815	Leu Thr Phe Leu Leu	825
Ile Thr Trp Gly	830	Trp Gly Pro Val Asn	840
Thr Phe Met Tyr	845	Asn Thr Leu Gln Gly	855
Phe Ile Phe Ile	860	Lys Glu Asn Val Arg	870
Gln Trp Arg Arg	875	Lys Leu Arg Leu Ala	885
Asn Ser Asp Trp	890	Asn Gly Leu Lys Lys	900
Thr Val Asn Gln	905	Ser Asn Ser Leu Gln	915
Ser Ser Asn Ser	920	Leu Leu Val Asn Asn	930
	935		945


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Cys Ser Val His Ala Ser Gly Asn Gly Asn Ala Ser Thr Glu Arg
      950                      955                      960
Asn Gly Val Ser Phe Ser Val Gln Asn Gly Asp Val Cys Leu His
      965                      970                      975
Asp Phe Thr Gly Lys Gln His Met Phe Asn Glu Lys Glu Asp Ser
      980                      985                      990
Cys Asn Gly Lys Gly Arg Met Ala Leu Arg Arg Thr Ser Lys Arg
      995                      1000                     1005
Gly Ser Leu His Phe Ile Glu Gln Met
      1010

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<212> PRT

<213> Homo sapiens

<300>

<308> GenBank ID No: g3342740

<400> 18

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Met Gly Gly Arg Val Phe Leu Ala Phe Cys Val Trp Leu Thr Leu
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Pro Gly Ala Glu Thr Gln Asp Ser Arg Gly Cys Ala Arg Trp Cys
      20                      25                      30
Pro Gln Asp Ser Ser Cys Val Asn Ala Thr Ala Cys Arg Cys Asn
      35                      40                      45
Pro Gly Phe Ser Ser Phe Ser Glu Ile Ile Thr Thr Pro Asp Ile
      50                      55                      60
Asn Glu Cys Ala Thr Leu Ser Lys Val Ser Cys Gly Lys Phe Ser
      65                      70                      75
Asp Cys Trp Asn Thr Glu Gly Ser Tyr Asp Cys Val Cys Ser Pro
      80                      85                      90
Gly Tyr Glu Pro Val Ser Gly Ala Lys Thr Phe Lys Asn Glu Ser
      95                      100                     105
Glu Asn Thr Cys Gln Asp Val Asp Glu Cys Gln Gln Asn Pro Arg
      110                     115                     120
Leu Cys Lys Ser Tyr Gly Thr Cys Val Asn Thr Leu Gly Ser Tyr
      125                     130                     135
Thr Cys Gln Cys Leu Pro Gly Phe Lys Asp Val Asn Glu Cys Thr
      140                     145                     150
Ser Gly Gln Asn Pro Cys His Ser Ser Thr His Cys Leu Asn Asn
      155                     160                     165
Val Gly Ser Tyr Gln Cys Arg Cys Arg Pro Gly Trp Gln Pro Ile
      170                     175                     180
Pro Gly Ser Pro Asn Gly Pro Asn Asn Thr Val Cys Glu Asp Val
      185                     190                     195
Asp Glu Cys Ser Ser Gly Gln His Gln Cys Asp Ser Ser Thr Val
      200                     205                     210
Cys Phe Asn Thr Val Gly Ser Tyr Ser Cys Arg Cys Arg Pro Gly
      215                     220                     225
Trp Lys Pro Arg His Gly Ile Pro Asn Asn Gln Lys Asp Thr Val
      230                     235                     240
Cys Glu Asp Met Thr Phe Ser Thr Trp Thr Pro Pro Pro Gly Val

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	245		250		255
His Ser Gln Thr	Leu Ser Arg Phe Phe	Asp Lys Val Gln Asp	Leu		
	260		265		270
Gly Arg Asp His	Leu Ser Ser Phe Ala	Val Leu Met Ala His	Tyr		
	275		280		285
Asp Val					